Listing of Claims

1. (Currently Amended) A medical ~~Medical~~ imaging device ~~(1)~~, comprising an X-ray source ~~(2)~~ for providing an X-ray image of an object, an X-ray detector ~~(3)~~ to derive image data from said X-ray image and display means ~~(5)~~ for displaying the image data, ~~characterized in that~~wherein, the X-ray detector ~~(3)~~ has an adjustable detector orientation relative to the object, the display means ~~(5)~~ have an adjustable display orientation relative to a viewer, and orientation control means ~~(8)~~ are provided for rendering the detector orientation and the display orientation essentially equal.

2. (Currently Amended) The medical ~~Medical~~ imaging device according to claim 1, wherein the orientation control means ~~(8)~~ are arranged for automatically coupling the detector orientation and the display orientation.

3. (Currently Amended) The medical ~~Medical~~ imaging device according to claim 1, wherein the orientation control means ~~(8)~~ are arranged for automatically providing a signal to a user in case the detector orientation and the display orientation are different.

4. (Currently Amended) The medical ~~Medical~~ imaging device according to claim 1~~, 2 or 3~~, wherein the orientation control means ~~(8)~~ comprise means ~~(9)~~ for detecting the detector orientation.

5. (Currently Amended) The medical ~~Medical~~ imaging device according to claim 1~~, 2, 3 or 4~~, wherein the orientation control means ~~(8)~~ comprise means ~~(10)~~ for detecting the display orientation.

6. (Currently Amended) The medical ~~Medical~~ imaging device according to claim 4 ~~and 5~~, wherein the orientation control means ~~(8)~~ are arranged to compare the detector orientation to the display orientation.

7. (Currently Amended) The medical ~~Medical~~ imaging device according to claim 6, wherein the orientation control means ~~(8)~~ are arranged for automatically adjusting the display orientation such that it is essentially equal to the detector orientation.

8. (Currently Amended) The medical ~~Medical~~ imaging device according to claim 6, wherein the orientation control means ~~(8)~~ are arranged for automatically adjusting the detector orientation such that it is essentially equal to the display orientation.

9. (Currently Amended) The medical ~~Medical~~ imaging device according to claim 3, wherein the signal comprises a message on the display means ~~(5)~~ indicating that the display orientation needs to be adjusted.

10. (Currently Amended) The medical ~~Medical~~ imaging device according to ~~one or more of the preceding~~ claims1, wherein the processing means are arranged for controlling the orientation control means ~~(8)~~.

11. (New) A medical imaging device comprising:

an x-ray detector;

a display means for displaying image data;

an x-ray detector orientation sensor;

a display means orientation sensor; and

an orientation control processor, wherein said orientation control processor receives signals from said x-ray detector orientation sensor and said display means orientation sensor and sends signals to orientation control means which aligns the x-ray detector and the display means in substantially similar orientations.

12. (New) The medical imaging device of claim 11, wherein said orientation control means includes one or more motors coupled to said x-ray detector, said display means, or both the x-ray detector and the display means.

13. (New) The medical imaging device of claim 11, wherein said orientation control means adjusts the orientation of the display means such that it is substantially similar to the orientation of the x-ray detector.

14. (New) The medical imaging device of claim 11, wherein said orientation control means adjusts the orientation of the x-ray detector such that is substantially similar to the orientation of the display means.

15. (New) The medical imaging device of claim 11 further comprising a bodyguard.

16. (New) A medical imaging device comprising:

an x-ray detector;

a display means for displaying image data;

an x-ray detector orientation sensor;

a display means orientation sensor; and

an orientation control processor, wherein said orientation control processor receives signals from said x-ray detector orientation sensor and said display means orientation sensor and produces a signal when said x-ray detector and said display means are not in substantially similar orientations.

17. (New) The medical imaging device of claim 16, wherein the signal produced by the processor is displayed on said display means.

18. (New) The medical imaging device of claim 16 further comprising a means for adjusting the orientation of the x-ray detector, the display means or both the x-ray detector and the display means.

19. (New) The medical imaging device of claim 18, wherein the adjusting means automatically adjusts the orientation of he x-ray detector, the display means or both the x-ray detector and the display means.

20. (New) The medical imaging device of claim 18, wherein the adjusting means automatically adjusts the orientation of he x-ray detector, the display means or both the x-ray detector and the display means only after receiving confirmation from an operator.